

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference LP1939PC00	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/EP 03/ 00218	International filing date (day/month/year) 13/01/2003	(Earliest) Priority Date (day/month/year) 15/01/2002
Applicant LONZA AG		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.



It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.



the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international search was carried out on the basis of the sequence listing :



contained in the international application in written form.



filed together with the international application in computer readable form.



furnished subsequently to this Authority in written form.



furnished subsequently to this Authority in computer readable form.



the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.



the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ Certain claims were found unsearchable (See Box I).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,



the text is approved as submitted by the applicant.



the text has been established by this Authority to read as follows:

5. With regard to the abstract,



the text is approved as submitted by the applicant.



the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the drawings to be published with the abstract is Figure No.



as suggested by the applicant.



because the applicant failed to suggest a figure.



because this figure better characterizes the invention.



None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No.

PCT/EP 03/00218

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01J31/18 B01J31/34 B01J27/188 C07F13/00 C07C45/29
C07C51/285 C07D301/12

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J C07F C07C C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

CHEM ABS Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; KISHI, MINORU ET AL: "Detergent compositions for removal of oily soils in kitchen" retrieved from STN Database accession no. 131:273428 XP002247198 abstract	1,2
A	-& JP 11 286700 A (LION CORP., JAPAN) 19 October 1999 (1999-10-19) paragraphs '0018!', '0019!', '0032!', '0040!', '0042!; tables 1,2 --- -/--	1,2

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

10 July 2003

Date of mailing of the international search report

05/08/2003

Name and mailing address of the ISA

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Veefkind, V

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>SHUL'PIN G B ET AL: "Oxidations by the System 'Hydrogen Peroxide - Manganese(IV) Complex - Acetic Acid' - Part II. - Hydroperoxidation and Hydroxylation of Alkanes in Acetonitrile"</p> <p>TETRAHEDRON, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 55, no. 17, 23 April 1999 (1999-04-23), pages 5345-5358, XP004223047 ISSN: 0040-4020 cited in the application the whole document</p>	1-9
A	<p>EP 0 458 397 A (UNILEVER PLC ;UNILEVER NV (NL)) 27 November 1991 (1991-11-27) the whole document</p>	1-9
A	<p>LINDSAY SMITH J R ET AL: "Efficient Stereoselective Oxygenation of Alkanes by Peroxyacetic Acid or Hydrogen Peroxide and Acetic Acid Catalysed by a Manganese(IV) 1,4,7-Trimethyl-1,4,7-triazacyclononane Complex"</p> <p>TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 39, no. 27, 2 July 1998 (1998-07-02), pages 4909-4912, XP004120791 ISSN: 0040-4039 the whole document</p>	1-9
A	<p>SCHUCHARDT, U ET AL.: "Cyclohexane oxidation continues to be a challenge"</p> <p>APPLIED CATALYSIS A: GENERAL, vol. 211, 2001, pages 1-17, XP002247197 page 5, column 2 -page 7, column 1; table 2</p>	1-9

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Information on patent family members

National Application No

PCT/EP 03/00218

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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